POWER SUBWOOFER

SW-3HT

SERVICE MANUAL

KENWOOD

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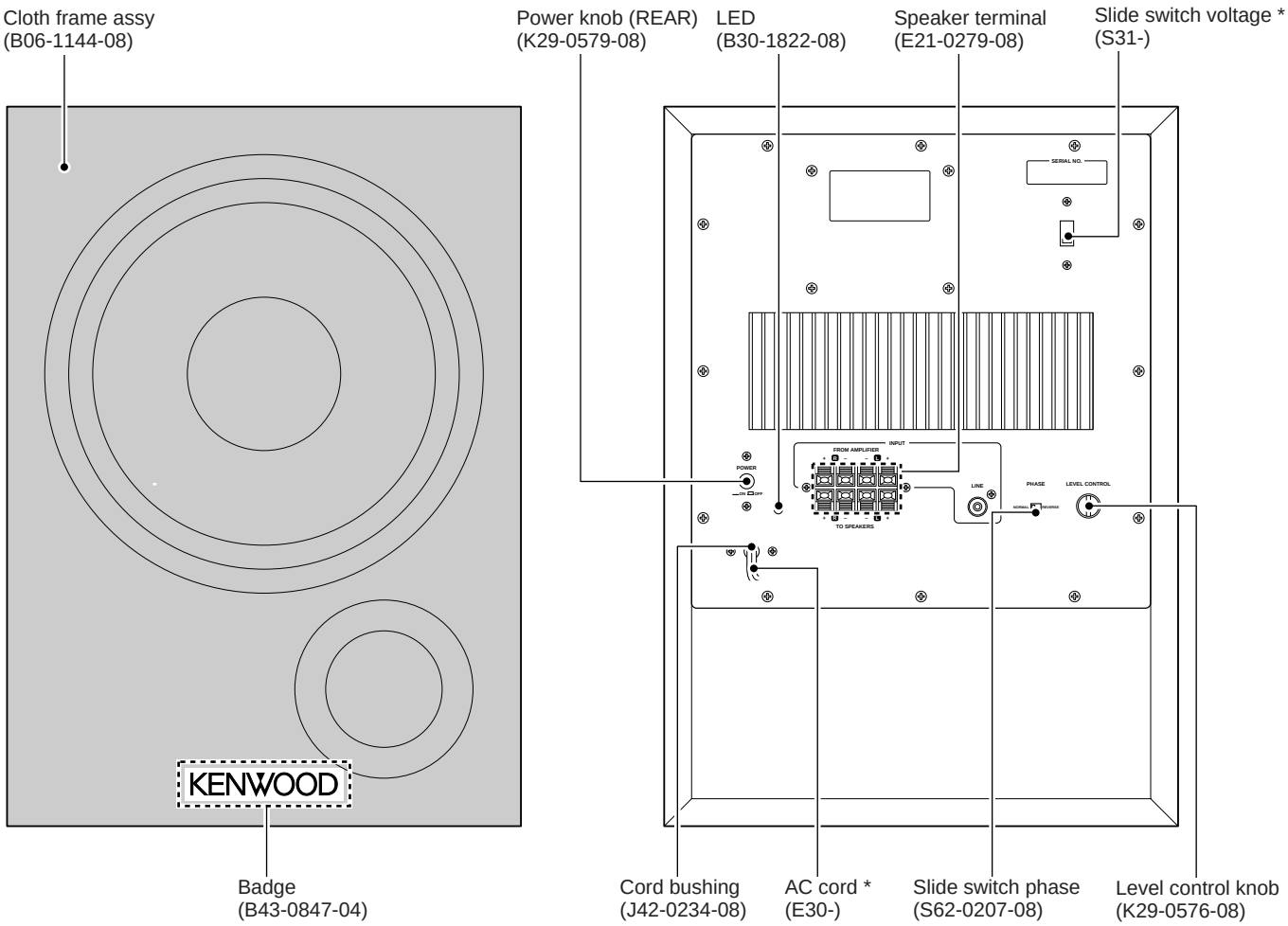

*** Refer to parts list on page 7.**

SPECIFICATIONS

Type ..... Subwoofer system with built-in amplifier

[Amplifier]

100 watts RMS, at 4 W, from 20 Hz to 200 Hz with no more than 0.09 % total harmonic distortion.

Phase Switching ..... NORMAL, REVERSE
Input Sensitivity & Input Impedance
RCA-type pin-plug jack ..... 45 mV (12 kW)
Push-type terminals ..... 0.7 V (5 kW)
Supply Voltage ..... U.S.A. and Canada AC 120 V
Other countries AC 110 V - 120 V/ AC 220 V - 240 V
Rated Power Consumption .. 110 W

[Speaker]
Enclosure ..... Bass-Reflex, Floor Standing Type
Speaker Units ..... 250 mm Cone type
Nominal Impedance ..... 4 W
Dimensions ..... Width : 300 mm (11-13/16")
Height : 420 mm (16-9/16")
Depth : 444 mm (17-1/2")
Net Weight ..... 16 kg (35.3 lb)
Supplied Accessories ..... Pin-plug cord × 1
..... Pads (× 4)

NOTE: DO NOT REMOVE THE GRILLE.

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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CONTENTS

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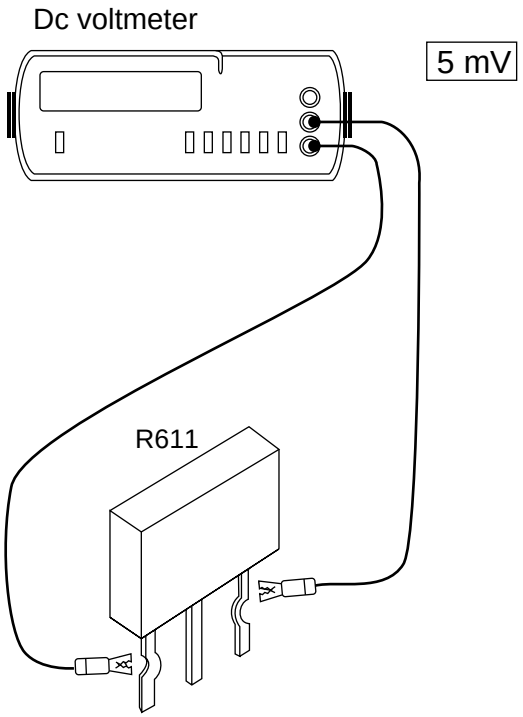
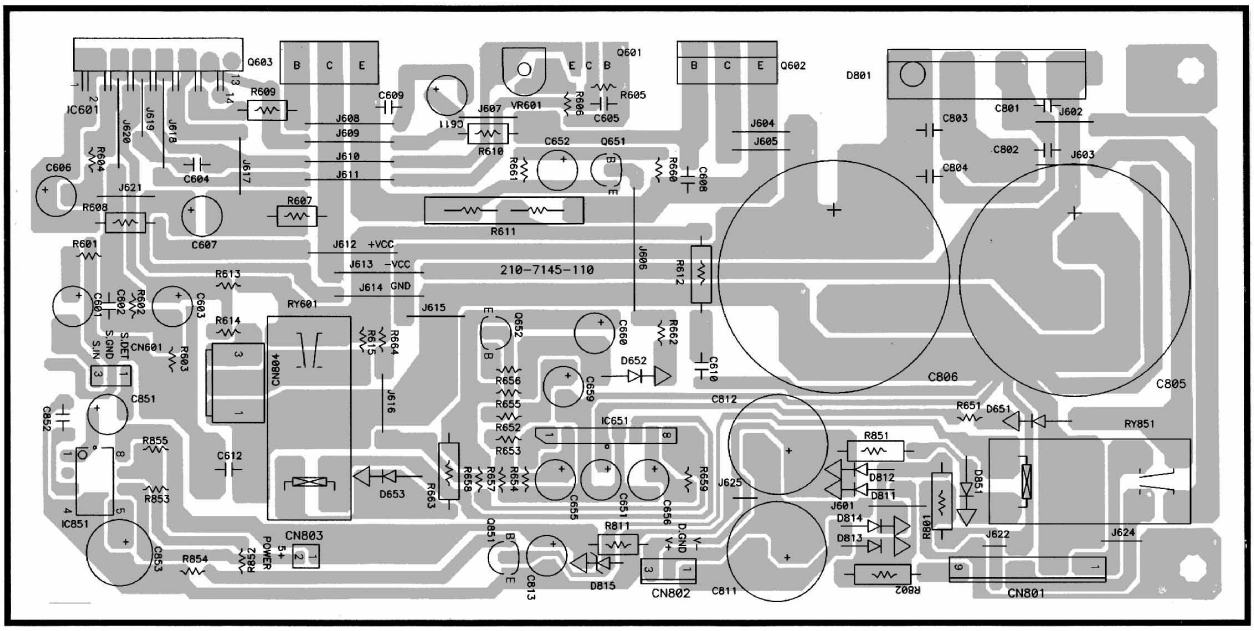
ADJUSTMENT

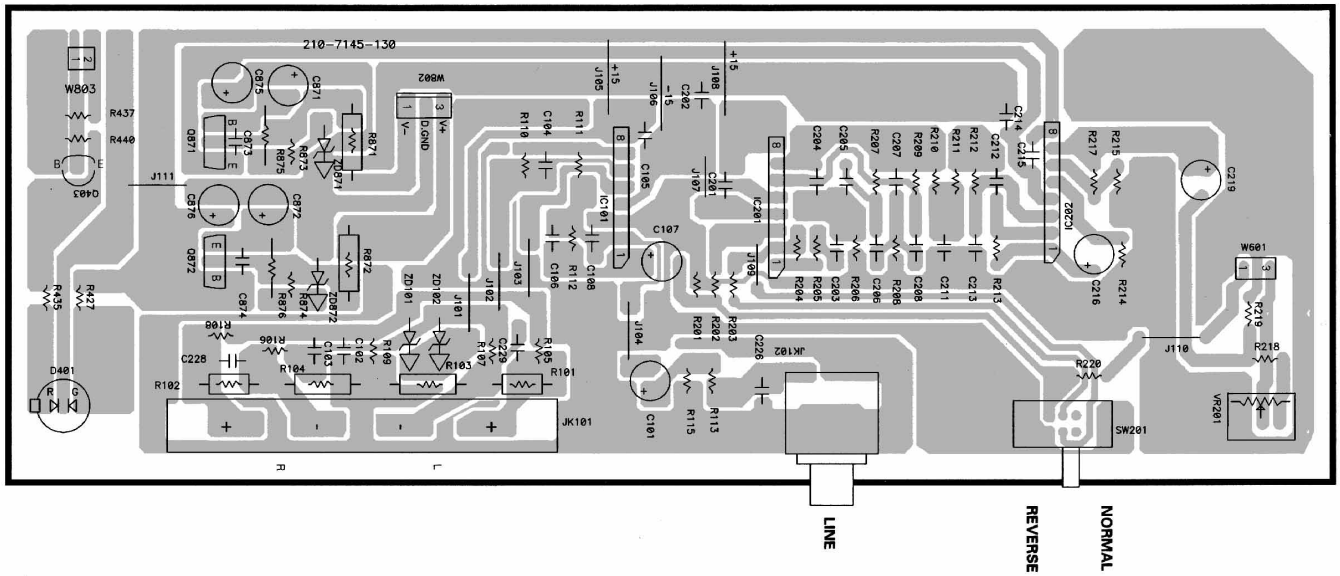
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as following : POWER : ON NO SIGNAL INPUT							
1	IDLE CURRENT	–	Connect a DC voltmeter to R611	VOLUME : 0	VR601	5 mV	(a)

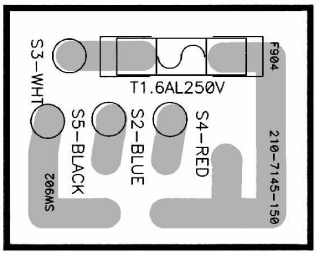
(a)

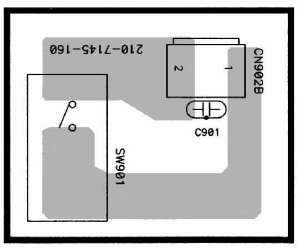


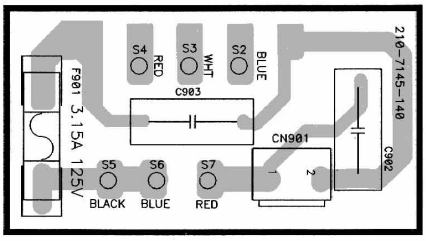
PC BOARD(Component side view)

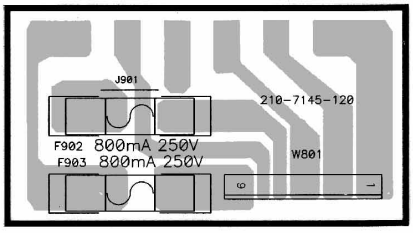




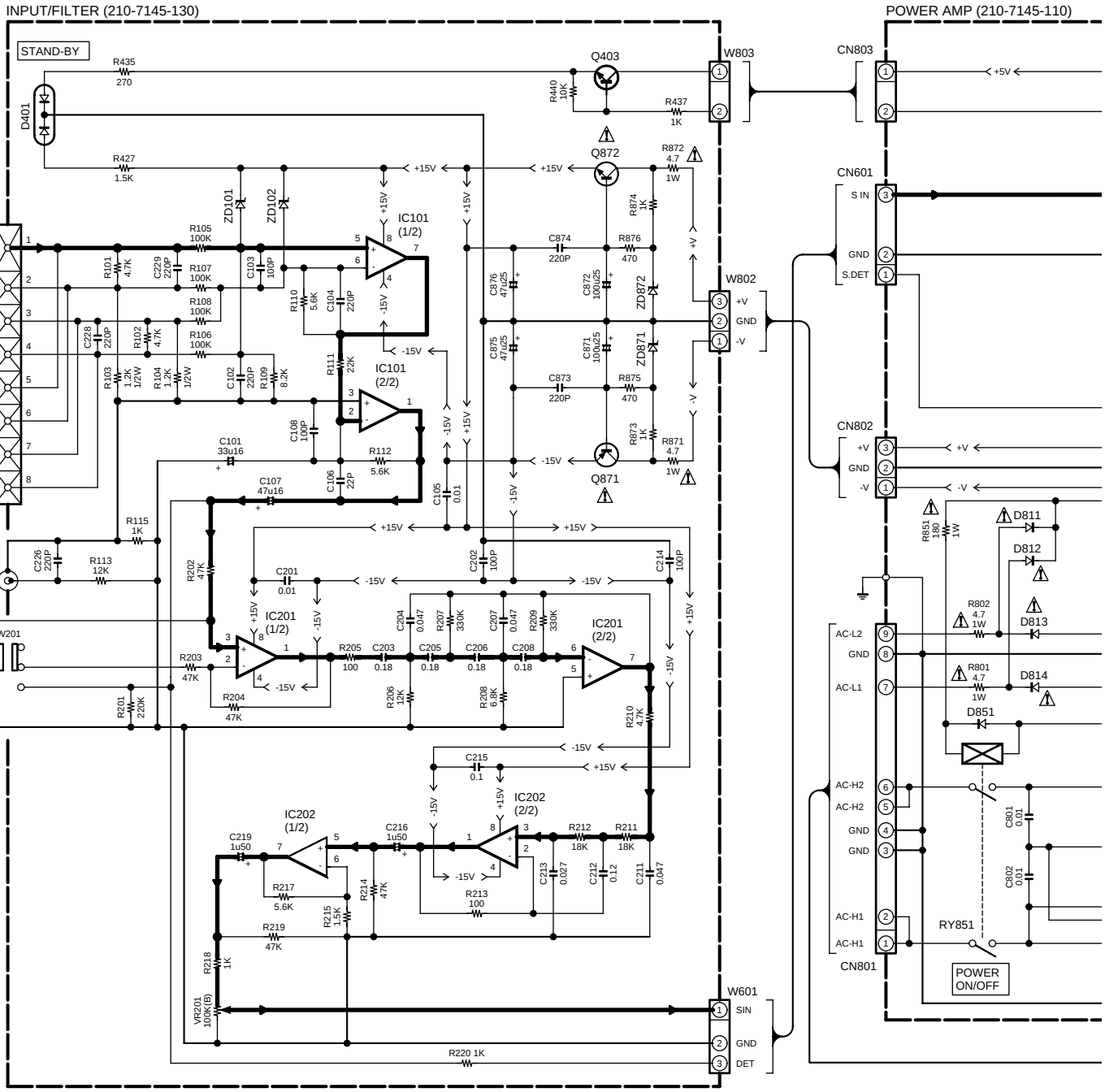








Refer to the schematic diagram for the value of resistors and capacitors.

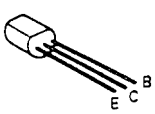


IC101,201,202	: NJM4558L
IC601	: uPC1298V
IC651	: uPC1237HA
IC851	: NJM2072D
Q403,651,851	: 2SC1815GR
Q601	: 2SC1846
Q602	: 2SC5198
Q603	: 2SA1941(R)
Q652	: 2SA1015GR
Q871	: 2SB1565(E,F)
Q872	: 2SD2394F
D401	: B30-1822-08
D651-653,811-814,851	: 1SR139-100
D801	: D3SBA20
ZD101,102	: MTZJ30B
ZD815	: MTZJ5.1B
ZD871,872	: MTZ16B

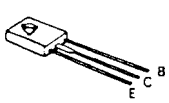
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product.

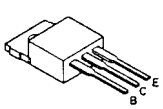
2SA1015GR



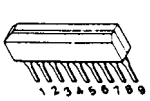
2SC1846



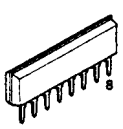
2SB1565



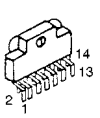
NJM4558L



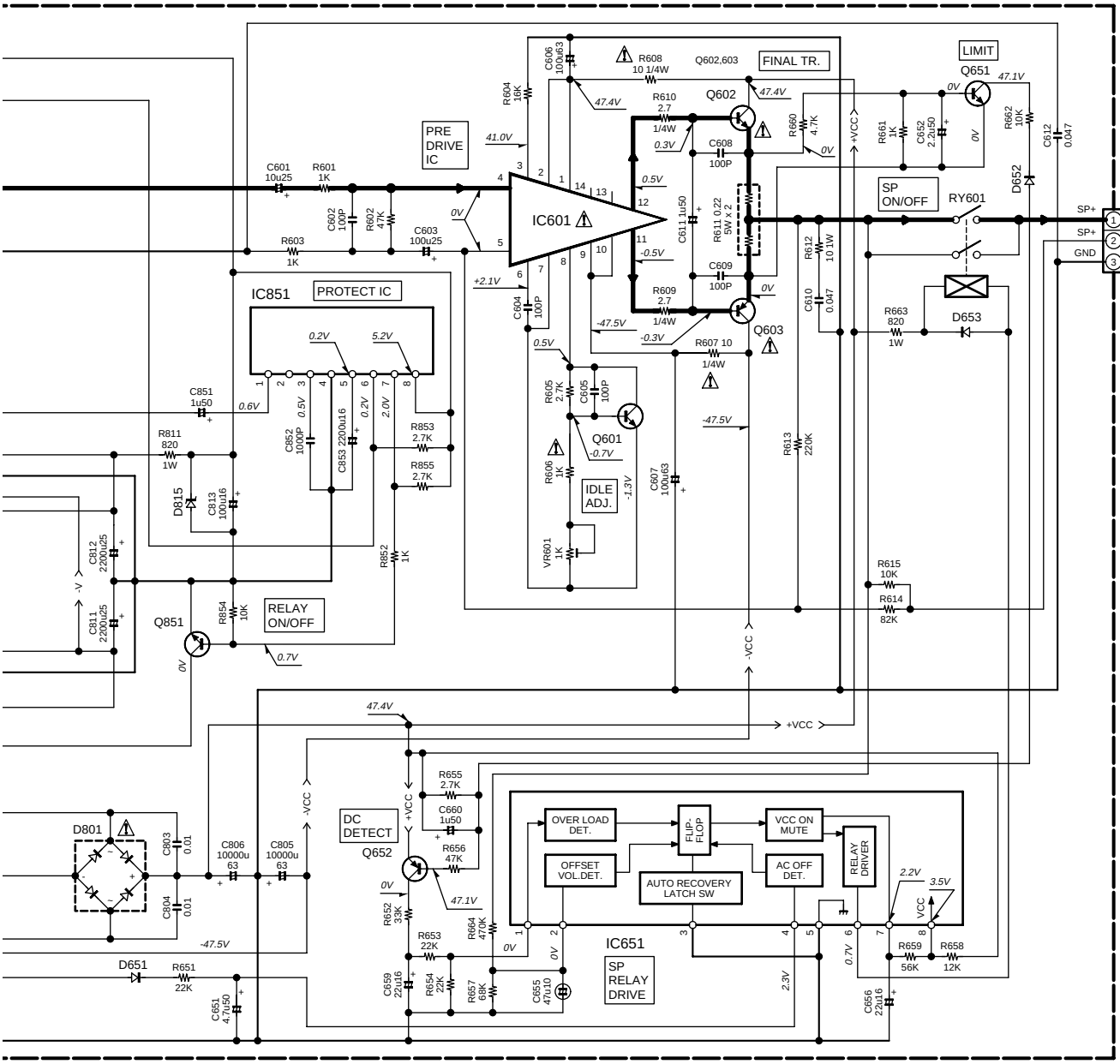
UPC1237HA

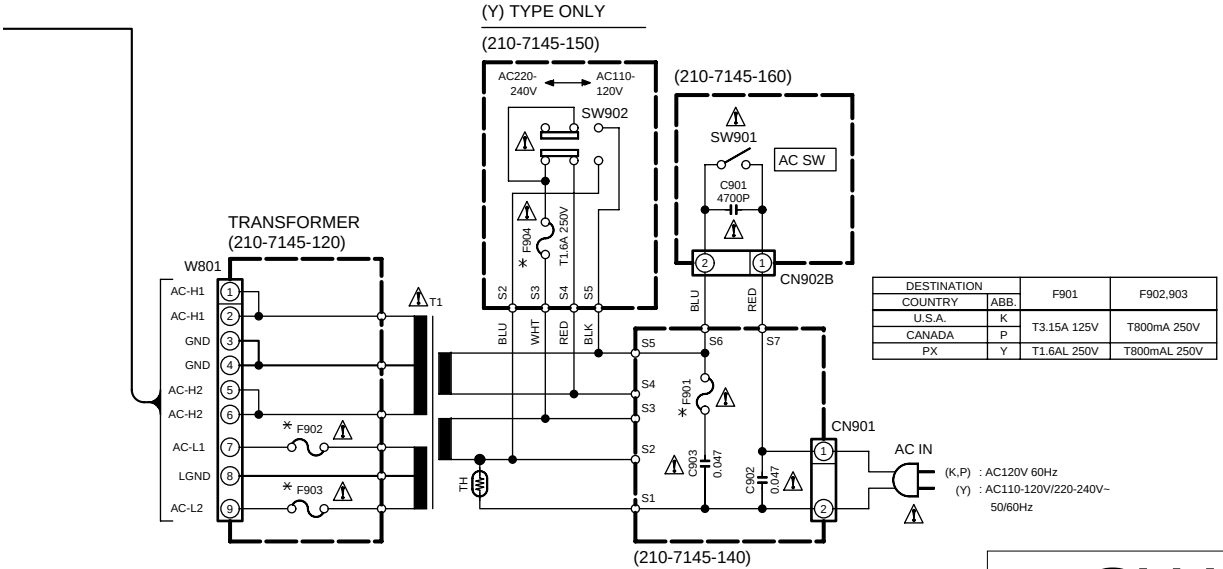


UPC1298V



F G H I J





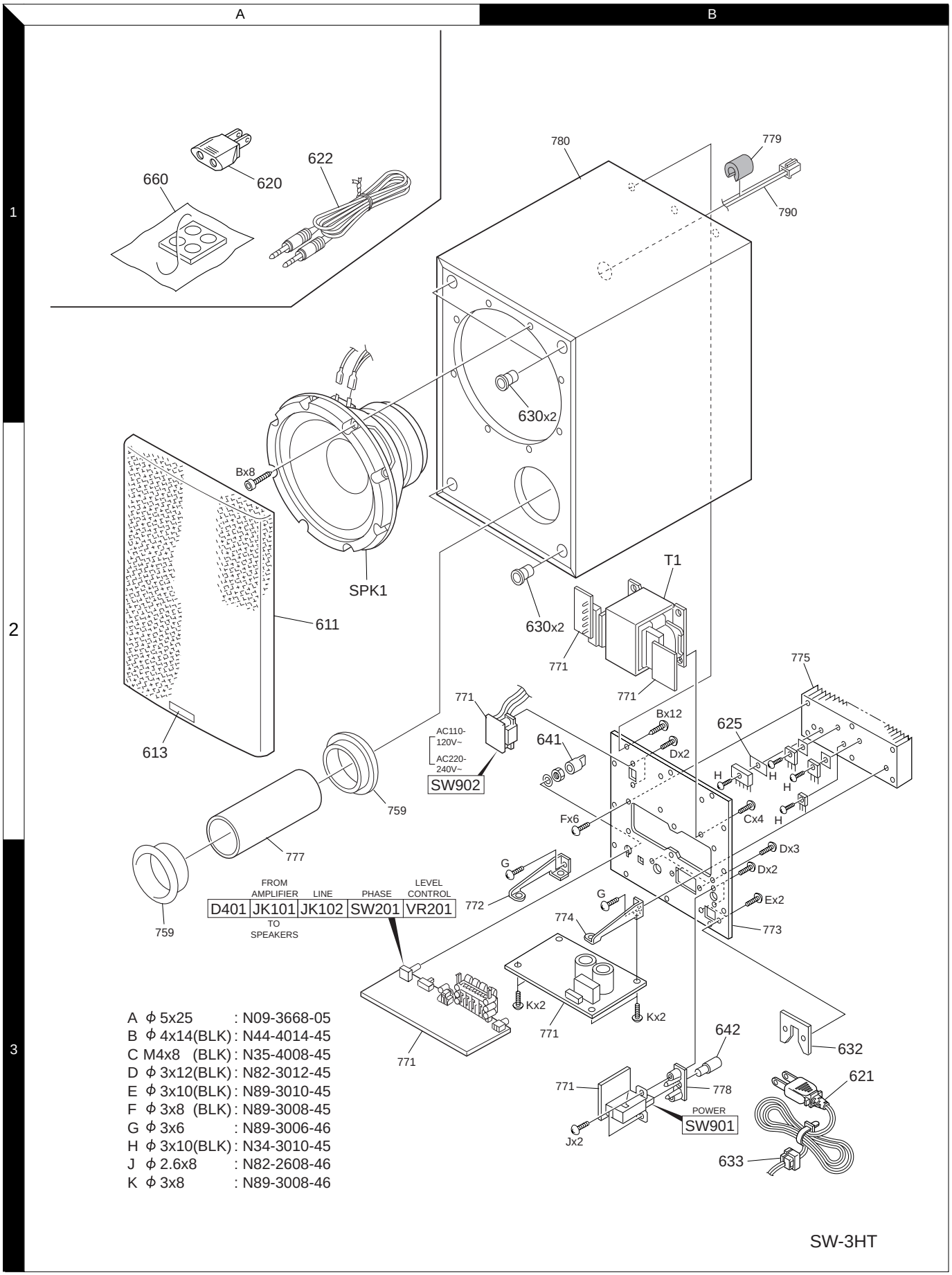
DESTINATION		F901	F902,903
COUNTRY	ABB.		
U.S.A.	K	T3.15A 125V	T800mA 250V
CANADA	P		
PX	Y	T1.6AL 250V	T800mAL 250V

SW-3HT

Y19-3990-10

KENWOOD

EXPLODED VIEW (UNIT)



A φ 5x25 : N09-3668-05
B φ 4x14(BLK) : N44-4014-45
C M4x8 (BLK) : N35-4008-45
D φ 3x12(BLK) : N82-3012-45
E φ 3x10(BLK) : N89-3010-45
F φ 3x8 (BLK) : N89-3008-45
G φ 3x6 : N89-3006-46
H φ 3x10(BLK) : N34-3010-45
J φ 2.6x8 : N82-2608-46
K φ 3x8 : N89-3008-46

SW-3HT

Parts with exploded view numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
				SW-3HT				
	611	2A		B06-1144-08	CLOTH FRAME ASSY			
	613	2A		B43-0847-04	BADGE			
⚠	620	1A		E03-0115-05	AC PLUG ADAPTER		Y	
⚠	621	3B		E30-5432-08	AC CORD,181-SA-W541		KP	
⚠	621	3B		E30-5438-08	AC CORD		Y	
	622	1C	✻	E30-5466-08	AUDIO CORD			
	625	1C		F20-0702-08	ISOLATION SHEET 19X24			
	630	1B,2B		J19-3988-08	CATCH BLACK(75)			
	632	3B		J21-8750-08	AC CORD HOLDER			
⚠	633	3B		J42-0234-08	CORD BUSHING,3-703-244-021			
	641	2B		K29-0576-08	LEVEL CONTROL KNOB			
	642	3B	✻	K29-0579-08	POWER KNOB(REAR)			
	660	1A		J02-0622-08	FOOT			
	-			B46-0328-03	WARRANTY CARD			
	-			B46-0336-03	WARRANTY CARD		K	
	-			B59-1104-00	SERVICE STATIONS LIST		Y	
	-		✻	B61-0962-00	INSTRUCTION MANUAL			
	-			H10-6447-08	POLYFOAM 310G/SET			
	-			H10-6448-08	POLYFOAM 310G/SET			
	-			H21-1284-08	MIRAMAR 1640X540X0.5T			
	-		✻	H25-2810-08	POLY BAG			
	-		✻	H51-1030-08	CARTON			
	-		✻	W01-1059-08	ACCESSORY		KP	
	-		✻	W01-1060-08	ACCESSORY		Y	
⚠	A			N09-3668-05	WOOD SCREW			
	B			N44-4014-45	WOOD SCREW			
	C			N35-4008-45	MACHINE SCREW(M4X8)			
	D			N82-3012-45	SCREW			
	E			N89-3010-45	SCREW			
	F			N89-3008-45	SCREW			
	G			N89-3006-46	SCREW			
	H		✻	N34-3010-45	SCREW			
	J			N82-2608-46	SCREW			
	K			N89-3008-46	SCREW			
	SPK1	2A	✻	T10-0793-15	SPEAKER 10,			
⚠	T1	2C	✻	L07-3019-05	POWER TRANSFORMER		KP	
⚠	T1	2C	✻	L07-3020-05	POWER TRANSFORMER		Y	
				ELECTRIC PARTS				
	D401			B30-1822-08	LED			
	C101			CE04KW1C330M	ELECTRO	33UF 16WV		
	C102			CC45FSL1H221K	CERAMIC	220PF K		
	C103			CC45FSL1H101J	CERAMIC	100PF J		
	C104			CC45FSL1H221K	CERAMIC	220PF K		
	C105			CQ92FM1H103J	MYLAR	0.010UF J		
	C106			CC45FSL1H220J	CERAMIC	22PF J		
	C107			CE04KW1C470M	ELECTRO	47UF 16WV		
	C108			CC45FSL1H101J	CERAMIC	100PF J		
	C201			CQ92FM1H103J	MYLAR	0.010UF J		
	C202			CC45FSL1H101J	CERAMIC	100PF J		
	C203			CQ92FM1H184J	MYLAR	0.18UF J		
	C204			CQ92FM1H473J	MYLAR	0.047UF J		
	C205,206			CQ92FM1H184J	MYLAR	0.18UF J		

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico
Y : PX(Far East, Hawaii) **T :** Europe **E :** Europe **G :** Germany
Y : AAFES(Europe) **X :** Australia **M :** Other Areas

⚠ indicates safety critical components.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❷

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
C207			CQ92FM1H473J	MYLAR	0.047UF	J			
C208			CQ92FM1H184J	MYLAR	0.18UF	J			
C211			CQ92FM1H473J	MYLAR	0.047UF	J			
C212			CQ92FM1H124J	MYLAR	0.12UF	J			
C213			CQ92FM1H273J	MYLAR	0.027UF	J			
C214			CC45FSL1H101J	CERAMIC	100PF	J			
C215			CQ92FM1H104J	MYLAR	0.10UF	J			
C216			CE04KW1H010M	ELECTRO	1.0UF	50WV			
C219			CE04KW1H010M	ELECTRO	1.0UF	50WV			
C226			CC45FSL1H221K	CERAMIC	220PF	K			
C228,229			CC45FSL1H221K	CERAMIC	220PF	K			
C601			CE04KW1E100M	ELECTRO	10UF	25WV			
C602			CC45FSL1H101J	CERAMIC	100PF	J			
C603			CE04KW1E101M	ELECTRO	100UF	25WV			
C604,605			CC45FSL1H101J	CERAMIC	100PF	J			
C606,607			CE04KW1J101M	ELECTRO	100UF	63WV			
C608,609			CC45FSL1H101J	CERAMIC	100PF	J			
C610			CQ92FM1H473J	MYLAR	0.047UF	J			
C611			CE04KW1H010M	ELECTRO	1.0UF	50WV			
C612			CQ92FM1H473J	MYLAR	0.047UF	J			
C651			CE04KW1H4R7M	ELECTRO	4.7UF	50WV			
C652			CE04KW1H2R2M	ELECTRO	2.2UF	50WV			
C655			CE04HW1A470M	NP-ELEC	47UF	10WV			
C656			CE04KW1C220M	ELECTRO	22UF	16WV			
C659			CE04KW1C220M	ELECTRO	22UF	16WV			
C660			CE04KW1H010M	ELECTRO	1.0UF	50WV			
C801-804			CQ92FM1H103J	MYLAR	0.010UF	J			
C805,806			C90-5024-08	ELECTRO	10000UF	63WV			
C811,812			CE04KW1E222M	ELECTRO	2200UF	25WV			
C813			CE04KW1C101M	ELECTRO	100UF	16WV			
C851			CE04KW1H010M	ELECTRO	1.0UF	50WV			
C852			CK45FB1H102K	CERAMIC	1000PF	K			
C853			CE04KW1C222M	ELECTRO	2200UF	16WV			
C871,872			CE04KW1E101M	ELECTRO	100UF	25WV			
C873,874			CC45FSL1H221K	CERAMIC	220PF	K			
C875,876			CE04KW1E470M	ELECTRO	47UF	25WV			
⚠ C901			C91-1441-08	CERAMIC	4700PF	250WV			
⚠ C902,903			C91-0211-08	POLYEST	0.047UF	250WV			
JK101			E21-0279-08	SPEAKER TERMINAL					
⚠ F901			F05-1623-05	FUSE,1.6A/250V				Y	
⚠ F901			F50-0072-05	FUSE,3.15A/125V				KP	
⚠ F902,903			F05-8013-05	FUSE,800MA/250V				Y	
⚠ F902,903			F50-0062-05	FUSE,800MA/250V				KP	
⚠ F904			F05-1623-05	FUSE,1.6A/250V				Y	
-			J13-0210-08	FUSE HOLDER					
R103,104			RD14BB2H122J	RD	1.2K	J	1/2W		
⚠ R606			RD14BB2C102J	RD	1.0K	J	1/6W		
⚠ R607,608			RN14BK2E100J	RN	10	J	1/4W		
R609,610			RN14BK2E2R7J	RN	2.7	J	1/4W		
R611			R90-0826-05	MULTI-COMP	0.22X2	J	5W		
R612			RS14GB3A100J	FL-PROOF RS	10	J	1W		
R663			RS14GB3A821J	FL-PROOF RS	820	J	1W		
⚠ R801,802			RS14GB3A4R7J	FL-PROOF RS	4.7	J	1W		

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⚠ indicates safety critical components.

SW-3HT

PARTS LIST

❸

	Ref. No	Address	New Parts	Parts No.	Description		Destination	Remarks
⚠	R811			RS14GB3A821J	FL-PROOF RS	820 J 1W		
⚠	R851			RS14GB3A181J	FL-PROOF RS	180 J 1W		
⚠	R871			RS14GB3A4R7J	FL-PROOF RS	4.7 J 1W		
⚠	R872			RD14GB2H4R7J	FL-PROOF RD	4.7 J 1/2W		
⚠	VR201		✻	R31-0411-08	POTENTIOMETER	LEVEL CONTROL		
	VR601			R31-0408-08	TRIMMING POT	BIAS		
	RY601			S51-2092-05	RELAY	SPEAKER		
	RY851			S51-2094-05	RELAY	POWER		
⚠	SW201			S62-0207-08	SLIDE SWITCH	PHASE		
⚠	SW901			S68-0202-08	POWER SWITCH			
⚠	SW902			S31-2115-05	SLIDE SWITCH	VOLTAGE	Y	
	D651-653			1SR139-100	DIODE			
	D801			D3SBA20	DIODE			
⚠	D811-814			1SR139-100	DIODE			
⚠	D815			MTZJ5.1B	ZENER DIODE			
	D851			1SR139-100	DIODE			
	IC101			NJM4558L	IC(OP AMP X2)			
	IC201,202			NJM4558L	IC(OP AMP X2)			
⚠	IC601			UPC1298V	IC(POWER AMP DRIVER)			
	IC651			UPC1237HA	IC(POWER AMP)			
	IC851			NJM2072D	IC			
	Q403			2SC1815GR	TRANSISTOR			
	Q601			2SC1846	TRANSISTOR			
⚠	Q602			2SC5198	TRANSISTOR			
⚠	Q603			2SA1941(R)	TRANSISTOR			
	Q651			2SC1815GR	TRANSISTOR			
	Q652			2SA1015GR	TRANSISTOR			
	Q851			2SC1815GR	TRANSISTOR			
⚠	Q871			2SB1565(E,F)	TRANSISTOR			
⚠	Q872			2SD2394F	TRANSISTOR			
	ZD101,102			MTZJ30B	ZENER DIODE			
	ZD871,872			MTZJ16B	ZENER DIODE			

✻ New Parts
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L : Scandinavia **K :** USA **P :** Canada **R :** Mexico
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Y : AAFES(Europe) **X :** Australia **M :** Other Areas

⚠ indicates safety critical components.

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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